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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371			U.S. APPLICATION NO. (if known) sec. 77 C.F.R. 1.5 09/744774
INTERNATIONAL APPLICATION NO. PCT/US00/41972	INTERNATIONAL FILING DATE 06 November 2000	PRIORITY DATE CLAIMED 10 November 1999	
TITLE OF INVENTION MULTI-REGION MARKET RESEARCH STUDY CREATION			
APPLICANT(S) FOR DO/EO/US Robert W. Monster			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> has been communicated by the International Bureau.</p> <p style="margin-left: 20px;">c. <input checked="" type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> is attached hereto.</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p style="margin-left: 20px;">d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). copy from PCT Application</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p>Items 11 to 20 below concern document(s) or information included:</p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A FIRST preliminary amendment.</p> <p>14. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A change of power of attorney and/or address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input type="checkbox"/> Other items or information:</p>			

21 <input checked="" type="checkbox"/> The following fees are submitted:				CALCULATIONS PTO USE ONLY	
BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):					
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO.....				\$1000.00	
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO				\$860.00	
International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO				\$710.00	
International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)				\$690.00	
International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4)				\$100.00	
ENTER APPROPRIATE BASIC FEE AMOUNT =				\$ 860.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	52 - 20 =	32	x \$18.00	\$ 576.00	
Independent claims	12 - 3 =	9	x \$80.00	\$ 720.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$270.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$1,296.00	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$ 648.00	
SUBTOTAL =				\$ 648.00	
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
TOTAL NATIONAL FEE =				\$ 648.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$	
TOTAL FEES ENCLOSED =				\$ 648.00	
				Amount to be refunded:	\$
				charged:	\$
a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>648.00</u> to cover the above fees is enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required , or credit any overpayment to Deposit Account No. <u>501569</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO:					
ALOYSIUS T.C. AUYEUNG COLUMBIA IP LAW GROUP, LLC 4900 SW Meadows Road, Suite 109 Lake Oswego, Oregon 97035					
				SIGNATURE	
				<u>Aloysius T.C. AuYeung</u>	
				NAME	
				<u>35,432</u>	
				REGISTRATION NUMBER	

PCT/US00/41572

09/744774

Multi-Region Market Research Study CreationRelated Application

This application claims priority to U.S. Provisional Application number 09/164,585, entitled "System and Method for Obtaining and Collating Survey Information In Real Time For Multiple Languages and Multiple Character Encodings", filed on November 10, 1999, which is hereby fully incorporated by reference.

BACKGROUND OF THE INVENTION1. Field of the Invention

The present invention relates to the field of data processing. More specifically, the present invention relates to the creation of market research studies for multiple regions, in particular, when non-English speaking regions are involved.

2. Background Information

With increased globalization of commerce, increasingly market researchers have to conduct market research that involves multiple regions of the globe. Creating, conducting, collecting data, analyzing data and reporting on such a market research study present a number of challenges that otherwise do not exist in the case of a single region market research study. Multi-region studies necessarily involve panelists (also referred to as interviewees, study subjects, and so forth) that are dispersed in locations. Often, it involves language differences, cultural differences, price point sensitive differences and so forth.

Historically, market researchers would develop a study for a first region, e.g. an English speaking region, and then work with local counterparts in the various regions to have the study translated, and conducted. Under the prior art, it was often difficult to coordinate the creation of the study, ensuring the data collected are consistent, and compatible for consolidation, analysis and

reporting. It was also difficult to manage the translations, and most importantly, the overall cost of the studies.

Thus, an improved approach to the creation, conducting, data collection and analysis, as well as reporting is desired.

SUMMARY OF THE INVENTION

A market research service is provided with a study creation service that includes a number of functions to support the creation of multi-region market research studies. In one embodiment, the functions include a function in support of implicit country and/or city selection within a region. In another embodiment, the functions include a function in support of real time costing of a multi-region study, taking into consideration cost factors such as the number of panelists, their distribution in the study regions/countries/cities, and the amount of translations required. In yet another embodiment, the functions include a function in support of auto notification to translators providing translation services for translating study elements (such as questions, messages, pick lists and concepts) into supported target languages. In yet another embodiment, the functions include a function in support of on-line check in of the translated study elements. In yet another embodiment, the functions include a function in support of on-line monitoring of translation status.

BRIEF DESCRIPTION OF DRAWINGS

The present invention will be described by way of exemplary embodiments, but not limitations, illustrated in the accompanying drawings in which like references denote similar elements, and in which:

Figure 1 illustrates an overview of the present invention, including the multi-region market research service of the present invention, in accordance with one embodiment;

Figure 2 illustrates a method view of the present invention, in accordance with one embodiment;

Figure 3 illustrates the operational flow of the study creation service of the multi-region market research service of **Fig. 1**, in accordance with one embodiment;

Figures 4a-4b illustrate an example user interface and the operational flow of the relevant aspects of the study creation service for selecting target regions, in accordance with one embodiment;

Figures 5a-5b illustrate an example user interface and the operational flow of the relevant aspects of the study creation service for supporting real time costing of a multi-region study, in accordance with one embodiment;

Figure 6 illustrates an example user interface of the study creation service for checking in translated study elements, in accordance with one embodiment;

Figure 7 illustrates the operational flow of the study creation service for supporting checking in of translated study elements, in accordance with one embodiment;

Figure 8 illustrates an example user interface of the study creation service for monitor the status of the translations, in accordance with one embodiment;

Figure 9 illustrates the operational flow of the study creation service for supporting translation status monitoring, in accordance with one embodiment;

Figures 10a-10b illustrate various example data organizations suitable for use to store the message and pick list elements for practicing the present invention, in accordance with one embodiment;

Figures 11a-11b illustrate various example data organizations suitable for use to store the questions and concepts for practicing the present invention, in accordance with one embodiment;

Figure 11c illustrates an example data organization suitable for use to store the various cost factors for practicing the present invention, in accordance with one embodiment; and

Figure 12 illustrates an example computer system suitable for use to practice the present invention, in accordance with one embodiment.

DETAILED DESCRIPTION OF THE INVENTION

In the following description, various aspects of the present invention will be described. However, it will be apparent to those skilled in the art that the present invention may be practiced with only some or all aspects of the present invention. For purposes of explanation, specific numbers, materials and configurations are set forth in order to provide a thorough understanding of the present invention. However, it will also be apparent to one skilled in the art that the present invention may be practiced without the specific details. In other instances, well known features are omitted or simplified in order not to obscure the present invention.

Parts of the description will be presented in terms of operations performed by a processor based device, using terms such as data, tables, requesting, determining, retrieving, displaying, and the like, consistent with the manner commonly employed by those skilled in the art to convey the substance of their work to others skilled in the art. As well understood by those skilled in the art, the quantities take the form of electrical, magnetic, or optical signals capable of being stored, transferred, combined, and otherwise manipulated through mechanical and electrical components of the processor based device; and the term processor include microprocessors, micro-controllers, digital signal processors, and the like, that are standalone, adjunct or embedded.

Various operations will be described as multiple discrete steps in turn, in a manner that is most helpful in understanding the present invention, however, the order of description should not be construed as to imply that these operations are necessarily order dependent. In particular, these operations need not be performed in the order of presentation. Further, the description repeatedly uses the phrase "in one embodiment", which ordinarily does not refer to the same embodiment, although it may.

Overview

Referring now first to **Figure 1**, wherein a block diagram illustrating an overview of the present invention, in accordance with one embodiment, is

shown. As illustrated, multi-region market research service provider **102** is advantageously provided with the multi-region market research study creation service of the present invention. As will be described in more detail below, the multi-region market research study creation service (hereinafter simply study creation service) includes a number of novel services, in particular, region wide target geography selection, real time costing, automatic notification to translation service providers, and services for managing translation, as multi-region study often involves translation of study elements.

As shown, the computing equipment of multi-region market research clients, specifically, creators of the multi-region studies, **104**, are coupled to the computing equipment of multi-region market research service provider **102** via networking fabric **108**. Similarly, the computing equipment of translation service providers **106** are also coupled to the computing equipment of multi-region market research service provider **102** via networking fabric **108**.

Through their respective equipment, study creators **104** and translation service providers **106** use the study creation services provided by market research service provider **102** to create their multi-region market research studies, and provide translation services respectively, thereby allowing multi-region market research studies, in particular, those involving multiple target languages and translations, to be created much more efficiently.

Except for the novel services incorporated with the study creation service of multi-region market research service provider **102**, the various equipment used by multi-region market research service provider **102**, market research clients **104**, and translation service providers **106**, as well as networking fabric **108** are intended to represent a broad range of these elements known in art. Examples of computing and networking equipment suitable for practicing the present invention include but are not limited to various palm-sized, notebook size, or desktop computers available from e.g. IBM of Armonk, NY, servers available from Sun Microsystems of Mountain View, CA, and routers/switches available from CISCO Systems of San Jose, CA. The functions and constitutions of these elements are known, accordingly will not be further described.

The study creation method of the present invention, including the study creation service of service provider **102**, and other related subjects will be described in turn below. [Note that multi-region market research provider **102** may be a "single" entity or an "alliance" of affiliated entities.]

Method

Referring now to **Figure 2**, wherein a block diagram illustrating a method view of the study creation method of the present invention, in accordance with one embodiment, is shown. As illustrated, at block **202**, market research client **104** uses the study creation service of multi-region market research service provider **102** to create a multi-region market research study. One embodiment of the process for creating such study is illustrated in **Fig. 3**, to be described more fully below. Upon creation of the multi-region market research study, in accordance with the present invention, at block **204**, the study creation service advantageously provides real time cost estimates for the study being created for market research client **104**. In one embodiment, the cost factors considered in computing the real time cost estimates include at least the number of panelists selected, including their location distributions, i.e. the regions/countries/cities the study is to be conducted, as well as the amount of translations required, which includes the number of questions, messages, concepts, and so forth, as well as the number of languages to be translated into.

Thereafter, at block **206**, the study creation service facilitates market research client **104** making adjustments to the study being created, e.g. reducing/increasing the number panelists or the number of study regions/countries/cities, or reducing/increasing the amount of translations (by reducing/increasing the number of questions, messages, concepts, and so forth, or the number of languages to be translated into). As before, in response to the adjustments, the study creation service provides real time feedback to market research client **104** on what the new cost is

Eventually, when the user finishes making adjustments (if any) to the study being created, at block **208**, the study creation service determines if any

of the study elements require translation. In one embodiment where the “standard” language is English, translation is required whenever a non-English speaking region, or a country or a city within such a region, is selected as one of the target geography of the study, and the study elements have not been previously translated (by either service **102** or creator **104**). In one embodiment, the study elements may include study questions, study messages, study pick lists and/or study concepts.

If it is determined that translation is required for at least some of the study elements, at block **210**, the study creation service automatically notifies translation service providers **106** of the various target languages. The identities, communication addresses, and communication medium of translation service providers **106** for the various languages may be predetermined and/or pre-provisioned in any one of a known ways, e.g. through pre-registrations. In a preferred embodiment, a large number of languages, as many as upward of 30, are supported, with one or more translation service providers “registered” for each of the supported languages. In one embodiment, the translation service providers are notified via emails. The emails are advantageously constituted in a language dependent manner. Such emails are the subject of co-pending U.S. Patent Applications, <number to be assigned>, entitled Language Sensitive Electronic Mail Generation And Associated Applications, filed contemporaneously, and having common inventorship with the present invention. Except for any circular incorporation, the application is hereby fully incorporated by reference.

Thereafter, the study creation service offers various utilities for the study creator to monitor the status of the translations, block **212**. In one embodiment, the study creation service offers a single summary view for the translation status of all study elements requiring translation for all languages. Eventually, when all translations are completed (or if it was earlier determined that no translation is required), the process continues at block **214**, where the created study is conducted, data collected, analyzed and reported.

In various embodiments, conducting the study, and analyzing/reporting on the study are performed as described in co-pending U.S. Patent

Applications, <number to be assigned>, entitled Multi-Region Market Research Study Processing, and <number to be assigned>, entitled Reporting And Analyzing Data From A Multi-Region Research Survey, both filed contemporaneously, and have common inventorship with the present invention. Except for any circular incorporation, these co-pending applications are also hereby fully incorporated by reference.

Functions and Operations for Creating a Market Research Study

Figure 3 illustrates the operation flow of the study creation service of the multi-region market research service **102** of **Fig. 1**, in accordance with one embodiment. As illustrated, study creation service includes a first function that facilitates the study creator in first defining the research method of the study, block **302**. Examples of study methods include but are not limited to complaint monitor, electronic concept test, electronic copy test, habits and practice test, paired comparison test, satisfaction test, single product test, and so forth. Study creation service also includes a second function that facilitates the study creator in selecting the target geography of the study, block **304**. As will be described in more detail below, in one embodiment, the study creation service is advantageously equipped to support implicit target geography selection for a country or a city within a region of the globe.

Further, study creation service includes a third function that facilitates the study creator in providing various details on the involved products of the study, block **306**. Examples of these product details include but are not limited to the form of each of the involved products, the average weight of each of the involved products, the duration of usage for each of the involved products, and so forth. A fourth function that facilitates the study creator in specifying the panelists (also known as interviewees or study subjects), block **308**, is also provided. Examples of panelist specification include but are not limited the size of the panel, their statistical distribution in terms of demographics, and so forth.

In one embodiment, a fifth function that facilitates the study creator in segmenting the panel, block **310**, is also provided. A panel may be segmented in terms of one or more demographic factors, such as, age, education,

household income, and so forth. Lastly, for the illustrated embodiment, a sixth function that facilitates the study creator in defining which survey/concept to use, and whether translation of the survey/concept elements are necessary, block 312, is also provided.

Target Geography Selection

As described earlier, one of the novel services offered by the study creation service of multi-region market research service provider 102 is the service that supports implicit selection of target geography by regions. **Figure 4a** illustrates an example user interface suitable for use to practice the implicit country/city selection within a region of the present invention, and **Figure 4b** illustrates the operation flow of the relevant aspects of the associated functions in support of such advantageous implicit selection.

As illustrated, interface 400 advantageously summarizes and presents the study creator with a small number of global study regions 404. For the illustrated embodiments, 10 regions, North America, European Union, G-7 countries, and so forth are presented. Additionally, a scrollable list of countries supported 408 as well as a scrollable list of cities supported 410 are also presented. In response to the study creator selecting one of the regions, e.g. Greater China, the supported countries within the selected region, e.g. Taiwan, and the supported cities within the selected region, e.g. Shanghai, China, Shenyang, China, and Taipei, Taiwan, in the corresponding lists 408-410 are highlighted for the study creator. Thus, upon selecting a region of interest, a study creator may immediately be appraised of the target countries and/or cities the study creator may conduct the defined study. In a preferred embodiment, the study creator may also deselect any of the highlighted countries/cities that are of no interest to the study creator.

As illustrated in **Fig. 4b**, associated with example user interface 400 are a number of Region_Checked functions, which as shown, are invoked in response to the study creator selecting one of the enumerated global regions, block 422. Upon invocation, each of the Region_Checked functions determines if its corresponding region has been selected by the study creator,

block 426. If so, each of the Region_Checked functions select the corresponding countries/cities within the selected region, and highlight the selection for the study creator, block 428, otherwise, no actions are taken, block 430.

The determination and selection may e.g. be accomplished using instructions similar to the example instructions below (for checking whether the European region was selected):

```
function eu_change()
{
  if (document.forms[0].tgt_eu.checked) {
    document.forms[0].tgt_country.options[3].selected = true //Austria
    document.forms[0].tgt_country.options[4].selected = true //Belgium
    document.forms[0].tgt_country.options[11].selected = true //Denmark
    document.forms[0].tgt_country.options[13].selected = true //Finland
    document.forms[0].tgt_country.options[14].selected = true //France
    document.forms[0].tgt_country.options[22].selected = true //Ireland
    etc.
    document.forms[0].citylist.options[2].selected = true //Barcelona
    document.forms[0].citylist.options[11].selected = true //Essen
    document.forms[0].citylist.options[16].selected = true //London
    document.forms[0].citylist.options[21].selected = true //Marid
    document.forms[0].citylist.options[22].selected = true //Manchester
    document.forms[0].citylist.options[25].selected = true //Milan
    document.forms[0].citylist.options[30].selected = true //Paris
  }
}
```

Thus, it can be seen under the present invention, a multi-region market research study creator 104 can easily discern where in the various regions/countries/cities he/she can conduct his/her market research through the services offered by market research service provider 102, thereby improving the efficiency in the manner creator 104 may create multi-region market research studies.

Real Time Costing

As described earlier, one of the most troublesome problem that confronts a multi-region market research study creator is the problem of controlling the cost of a large multi-region market research study, preferably early in the development cycle of the market research study, and one of the novel services offered by the study creation service of multi-region market research service provider **102** is the service that supports real time costing of a multi-region market research study being created, thereby enabling a multi-region market research creator **104** to be in better position in controlling the cost of such study. **Figure 5a** illustrates an example user interface suitable for use to practice the real time costing feature of the present invention, and **Figure 5b** illustrates the operation flow of the relevant aspects of the associated functions in support of such advantageous costing of a multi-region market research study.

As illustrated, interface **500** advantageously summarizes a number of attributes of the market research being created. In particular, for the illustrated embodiment, these attributes include the type of research design selected (**504**), e.g. "paired comparison – acceptance test", the geographic focus (**506**), i.e. the regions, countries and cities the study is to be conducted, the amount of product usage (**510**), the methodology (**512**), i.e. the amount of panelists and their distribution by regions/countries/cities, and the number of "documents" (**514**), i.e. the number of questions, concepts, pick lists, messages and so forth, and for how many languages the "documents" are to be translated into. In accordance with the present invention, based on at least selected ones of these factors, study creation service **102** computes a cost estimate **516** in real time for market research study creator **104**. In one embodiment, as described earlier, study creation service **102** takes into account at least the number of panelists in each of the regions/countries/cities a study is to be conducted, and the amount of translations (i.e. the number of messages, questions, pick lists and so forth, and the number of languages involved). In one embodiment, study creation service **102** computes the cost

estimates by correspondingly multiplying the “attributes” with their cost units, and summing the various cost components.

As illustrated in **Fig. 5b**, in response to a request to display a summary of a market research study being created, at block **522**, study creation service **102** displays a summary of the “attributes” of a study being created, as described earlier, including in particular, a cost estimate of the study, taking into consideration at least the earlier described cost factors. Thereafter, at block **524**, study creation service **102** awaits for user inputs. Upon receipt of a user input, study creation service **102** determines if the user input is associated with the user making adjustment to any of the cost factors, i.e. number of panelists, number of regions/countries/cities, number of questions, messages etc., and number of languages involved. If the user input is associated with the user making adjustments to one or more of these cost factors, the adjusted cost factors are updated, and the estimated cost is re-calculated in real time to reflect the adjustment made. If the user input is not associated with the user making adjustment to any of the cost factors, the input is handled in an application dependent manner as in the prior art.

Thus, it can be seen under the present invention, a multi-region market research creator **104** has much better control, right up front at the time a study is created, on the cost of conducting a large multi-region market research study involving many regions/countries/cities, a large number of panelists and numerous languages.

Sample Data Organizations

Skipping to **Figure 11c**, wherein a diagram illustrating an example data organization suitable for use to store the cost factors, for practicing the present invention, is shown. As illustrated, cost factor table **1150** includes columns **1152** for storing the “panelist” cost units for the various regions, countries and/or cities, e.g. \$p1 per 100 panelists in China or \$p2 per 100 panelists in Shanghai, and so forth. Cost factor table **1150** also includes columns **1154** for storing the “translation” cost units for the various languages, e.g. \$q1 per 200 messages for Chinese-Modern or \$q2 per 50 questions for Chinese-

Traditional, and so forth, and \$r1 per 200 messages for Chinese-Modern or \$r2 per 50 questions for Chinese-Modern, and so forth. In alternate embodiments, other cost factors as well as other cost units may be employed instead.

On-Line Translation Check-In

As described earlier, one of the novel service offered by the study creation service of multi-region market research service provider **102** is the service that supports on-line check in of translated study elements by translation service providers **106**. As those skilled in the art would appreciate, the novel service is extremely useful, especially when a large number of languages are supported.

Figure 6 illustrates an example user interface suitable for use to practice the on-line translation check in aspect of the present invention, and **Figure 7** illustrates the operation flow of the relevant aspects of a function in support of such advantageous on-line check in. As illustrated, interface **600** includes display fields **604-606** displaying the study element identifier, and the study element text in the original language, which are especially useful for the translation service providers when inputting the translated study elements. Interface **600** advantageously provides input field **608** proximately placed adjacent to display fields **604-606** for translation service providers **106** to enter the translated study elements for the target languages, upon completing the translations. As described earlier, study elements may include study questions, study messages, study lists, study concepts, and the like.

As illustrated in **Figure 7**, associated with example user interface **600** is a function, which as shown, is invoked in response to the submission of the translated study elements of a target language by a translation service provider **106**. Upon invocation, the associated function sets the current target language to the target language for which the translation service provider is submitting translated study elements, block **702**. For the illustrated embodiment, thereafter, the function advantageously processes the submitted translated study elements by study element types, i.e. study questions, study messages, and so forth. For each of these study element types, the function processes

the study elements of the study element type, element by element, e.g. question by question, message by message, and so forth, blocks 704-710. For each study element, the function retrieves the study element's properties from the original language version, e.g. English, assigns the retrieved study element properties to the target language version (i.e. letting the target language version inherit the retrieved properties), and then saving the target language version into a corresponding study element table (i.e. the question table, the message table, and so forth).

The afore described retrieving, assigning and saving operation may e.g. be accomplished with instructions similar to the example instructions below (for processing a question):

```
SELECT question_text, question_type, access, owner, industries,
res_types, question_title FROM question_base WHERE
question_id=$question_id[$i] AND language='$original_language';

REPLACE INTO question_base (question_id, language, question_text,
question_type, access, owner, question_title) VALUES ($question_id[$i],
'$target_language', '$result_id[$i]', '$old_question_type', '$old_access',
$old_owner, '$old_title');
```

where "question_base" is the example name of the question table, and "question_type", "access", "owner" etc. are question attributes, and \$result_id[\$i] is the variable holding the translated question text for the current question being processed.

As those skilled in the art would appreciate, the storage organization storing by study element types, independent of target language, i.e. all questions stored in a question table regardless of the language version, all messages stored in a message table regardless of the language version, and so forth, provides for a efficient way of storing the large quantities of study elements (since a large number of languages are supported), as the storage structures (more specifically, the tables) may be normalized.

Thus, it can be seen under the present invention, the manner in which the various translation service providers 106 provide the translation results to a market research study client 104 is much more efficient.

Sample Data Organizations

Skipping to **Figures 10a-10b** and **11a-11b**, wherein four diagrams illustrating four example data organizations suitable for use to store the message elements, the pick list elements, the question elements, and the concept elements, for practicing the present invention, are shown. As illustrated in **Fig. 10a**, message table **1000** includes column **1002** and column **1004** for storing the message identifiers and the language identifiers of the stored messages or message elements. Message table **1000** further includes column **1006** for storing the message texts of the messages, and columns **1008** for storing the message attributes, such as fonts, alignments, and so forth associated with the stored messages.

Similarly, as illustrated in **Fig. 10b**, pick list table **1010** includes column **1012** and column **1014** for storing the pick list identifiers and the language identifiers of the stored pick list elements. Pick list table **1010** further includes column **1016** for storing the texts of the pick list elements, column **1018** for storing list sequence values for the pick list elements (in particular, for the pick list elements of non-alphabet languages), and columns **1020** for other related data.

Shown in **Fig. 11a** is example question table **1100**, which includes column **1102** and column **1104** for storing the question identifiers and the language identifiers of the stored questions or question elements. Question table **1100** further includes column **1106** for storing the question texts of the questions, and columns **1108** for storing the question attributes, such as fonts, alignments, and so forth associated with the stored questions.

Shown in **Fig. 11b** is concept table **1120**, which includes column **1112** and column **1114** for storing the concept identifiers and the language identifiers of the stored concepts. Concept table **1120** further includes column **1126** for storing the texts of the concepts, and columns **1128** for other related data.

In one embodiment, tables **1000**, **1010**, **1100** and **1110** are relational tables of one or more relational databases. In alternate embodiments, other equivalent data structures may be used instead.

Translation Management

As described earlier, another novel service offered by the study creation service of multi-region market research service provider **102** is the service that facilitates management of the translations. More specifically, the study creation service advantageously provides a summary overview of the translation status for all study elements of all supported languages (notwithstanding the large number of languages supported). As those skilled in the art would appreciate, the novel service is extremely useful for the study creators to monitor the progress of the translation effort and determines if a created study is ready to be conducted.

Returning now to **Figures 8-9**, wherein two diagrams illustrating an example user interface suitable for use to practice the on-line translation monitoring aspect of the present invention, and the operation flow of the relevant aspects of an associated function in support of such advantageous on-line monitoring of the transaction status. As illustrated in **Fig. 8**, interface **800** advantageously provides a table summarizing the translation status **808** of the study elements for the various supported languages. For the illustrated embodiment, a translation complete indicator "Y" is displayed if translation of the study element (i.e. question, message, and so forth) is complete. As result, by scrolling up the display, a study creator may quickly determine the status of the required translations.

As illustrated in **Fig. 9**, in response to the request for the translation status of the study elements by e.g. the study creator, at block **902**, the function first retrieves and output all the study elements' identifiers and texts in the original language (e.g. English). Thereafter, at block **904**, the function selects one of the supported languages as the current language. Then, at block **906**, for as long as there are study elements remaining to be processed, the function retrieves each of the study elements of the current language, element by element, and determines if the translation of the study element has completed. For the illustrated embodiment, completion of translation may simply be determined by the study element under examination having a non-

zero study element identifier. If the translation is completed, the function outputs an appropriate translation complete indicator, e.g. the letter "Y" described earlier, otherwise, the function outputs a blank (denoting translation incomplete).

Thereafter, the function determines if additional language remains to be processed, block **908**. Blocks **904-906** are repeated for as long as there are study elements of supported languages to process.

Thus, it can be seen under the present invention, a multi-region market research creator **104**, in addition to being able to have much better control of the cost a large multi-region market research study right up front, the multi-region market research creator **104** is also able to have much better control over the progress of the translation, which often times is the "critical factor" that determines how quickly a study can be launched.

Example Computer System

Figure 12 illustrates an example computer system suitable for use to practice the present invention, in accordance with one embodiment. As shown, computer system **1200** includes one or more processors **1202** and system memory **1204**. Additionally, computer system **1200** includes mass storage devices **1206** (such as diskette, hard drive, CDROM and so forth), input/output devices **1208** (such as keyboard, cursor control and so forth) and communication interfaces **1210** (such as network interface cards, modems and so forth). The elements are coupled to each other via system bus **1212**, which represents one or more buses. In the case of multiple buses, they are bridged by one or more bus bridges (not shown). Each of these elements performs its conventional functions known in the art. In particular, system memory **1204** and mass storage **1206** are employed to store a working copy and a permanent copy of the programming instructions implementing the study creation service of the present invention. The permanent copy of the programming instructions may be loaded into mass storage **1206** in the factory, or in the field, as described earlier, through a distribution medium (not shown)

or through communication interface **1210** (from a distribution server (not shown). The constitution of these elements **1202-1212** are known, and accordingly will not be further described.

Conclusion and Epilogue

Thus, it can be seen from the above descriptions, a novel method and apparatus for creating multi-region market research studies has been described. The novel method/apparatus is advantageously scalable to support a large number of languages.

While the present invention has been described in terms of the above illustrated embodiments, those skilled in the art will recognize that the invention is not limited to the embodiments described. The present invention can be practiced with modification and alteration within the spirit and scope of the appended claims. The description is thus to be regarded as illustrative instead of restrictive on the present invention.

What is claimed is:

providing on-line definition of the multi-region market research study including providing for on-line selection of one or more regions to conduct the study;

providing on-line check in for the translated study elements; and
providing on-line status monitoring for the translations.

3. The method of claim 1, wherein the method further comprises providing a real time cost estimate for the multi-region market research study defined, based at least in part on a number of regions the study is to be conducted and an amount of translation to be performed to conduct the study in the regions. .

5. The method of claim 1, wherein said providing of on-line check in for translated study elements comprises providing on-line check in for at least two of study questions, study messages, study pick lists, and study concepts.

6. The method of claim 1, where said providing of on-line check in for translated study elements comprises separately storing study questions, study messages, study pick lists, and study concepts.

7. The method of claim 1, wherein said providing of on-line status monitoring for the translations comprises display a summary report of on the translation status of the study elements by target languages.

8. A method for creating a multi-region market research study, the method comprising:

- providing on-line definition of research methods of the multi-region market research study,
- providing on-line selection of one or more regions to conduct the study;
- and
- providing on-line specification for panelists of the study.

9. The method of claim 8, wherein said providing of on-line selection of one or more regions to conduct the study comprises implicit selection of one or more countries/cities within a region in response to a selection of the region.

10. The method of claim 8, wherein said providing of on-line specification for panelists comprises providing on-line specification of segmentation of the panelists.

11. The method of claim 8, wherein the method further comprises providing on-line specification of statistical analyses for the study.

12. A method for creating a multi-region market research study, the method comprising:

- providing on-line definition of the multi-region market research study;
- and

automatically notifying one or more translation services to translate study elements of the multi-region market research study expressed in an original language into one or more target languages.

13. The method of claim 12, wherein said automatic notifications are made via emails whose constitutions are target language dependent.

14. The method of claim 12, wherein the method further comprises providing on-line check in for the translated study elements.

15. The method of claim 12, wherein the method further comprises providing on-line status monitoring for the translations. .

16. A method for creating a multi-region market research study, the method comprising:

providing on-line definition of the multi-region market research study;
and

providing on-line check in for translated study elements of the multi-region market research study translated from an original language into one or more target languages.

17. The method of claim 16, wherein said providing of on-line check in for translated study elements comprises providing on-line check in for at least two of study questions, study messages, study pick lists, and study concepts.

18. The method of claim 16, where said providing of on-line check in for translated study elements comprises separately storing study questions, study messages, study pick lists, and study concepts.

19. The method of claim 16, wherein the method further comprises providing on-line status monitoring for the translations.

20. A method for creating a multi-region market research study, the method comprising:

providing on-line definition of the multi-region market research study;

and

providing on-line status monitoring for translations of study elements of the multi-region market research study from an original language into one or more target languages.

21. The method of claim 20, wherein said providing of on-line status monitoring for the translations comprises display a summary report of on the translation status of the study elements by target languages.

22. An apparatus comprising:

storage medium having stored therein a plurality of programming instructions designed to implement a plurality of functions in support of on-line creation of a multi-region market research study, including

a first function to provide on-line definition of the multi-region market research study including providing for on-line selection of one or more regions to conduct the study,

a second function to notify one or more translation services to translate study elements of the multi-region market research study expressed in an original language into one or more target languages,

a third function to provide on-line check in for the translated study elements, and

a fourth function to provide on-line status monitoring for the translations;

and

one or more processors coupled to the storage medium to execute the programming instructions.

23. The apparatus of claim 22, wherein the first function is designed to provide implicit selection of one or more countries/cities within a region in response to a selection of the region.

24. The apparatus of claim 22, wherein the first function is further designed to provide a real time cost estimate for the multi-region market research study based at least in part on a number of the regions the study is to be conducted, and an amount of translation to be performed in conduct the study in the regions.

25. The apparatus of claim 24, wherein the second function is designed to automatically notify the one or more translation services in response to the definition of the study.

26. The apparatus of claim 22, wherein the third function is designed to provide on-line check in for at least two of study questions, study messages, study pick lists, and study concepts.

27. The apparatus of claim 22, where the third function is designed to separately store study questions, study messages, study pick lists, and study concepts.

28. The apparatus of claim 22, wherein the fourth function is designed to display a summary report of on the translation status of the study elements by target languages.

29. An apparatus for creating a multi-region market research study, the apparatus comprising:

storage medium having stored therein a plurality of programming instructions designed to implement a plurality of functions in support of on-line creation of a multi-region market research study, including a first function to provide

on-line definition of research methods of the multi-region market research study,

on-line selection of one or more regions to conduct the study; and

on-line specification for panelists of the study; and
one or more processors coupled to the storage medium to execute the programming instructions.

30. The apparatus of claim 29, wherein the first function is designed to provide implicit selection of one or more countries/cities within a region in response to a selection of the region.

31. The apparatus of claim 29, wherein the first function is designed to provide on-line specification of segmentation of the panelists.

32. The apparatus of claim 29, wherein the first function is further designed to provide on-line specification of statistical analyses for the study.

33. A apparatus for creating a multi-region market research study, the apparatus comprising:

storage medium having stored therein a plurality of programming instructions designed to implement a plurality of functions in support of on-line creation of a multi-region market research study, including

a first function to provide on-line definition of the multi-region market research study, and

a second function to automatically notify one or more translation services to translate study elements of the multi-region market research study expressed in an original language into one or more target languages; and

one or more processors coupled to the storage medium to execute the programming instructions.

34. The apparatus of claim 33, wherein the second function is designed to make said automatic notifications via emails constituted in a target language dependent manner.

35. The apparatus of claim 33, wherein the programming instructions further implement a third function to provide on-line check in for the translated study elements.

36. The apparatus of claim 33, wherein the programming instructions further implement a third function to provide on-line status monitoring for the translations.

37. An apparatus for creating a multi-region market research study, the apparatus comprising:

storage medium having stored therein a plurality of programming instructions designed to implement a plurality of functions in support of on-line creation of a multi-region market research study, including

a first function to provide on-line definition of the multi-region market research study, and

a second function to provide on-line check in for translated study elements of the multi-region market research study translated from an original language into one or more target languages; and

one or more processors coupled to the storage medium to execute the programming instructions.

38. The apparatus of claim 37, wherein the second function is designed to provide on-line check in for at least two of study questions, study messages, study pick lists, and study concepts.

39. The apparatus of claim 37, where the second function is designed to separately store study questions, study messages, study pick lists, and study concepts.

40. The apparatus of claim 37, wherein the programming instructions further implement a third function to provide on-line status monitoring for the translations.

41. An apparatus for creating a multi-region market research study, the apparatus comprising:
 - storage medium having stored therein a plurality of programming instructions designed to implement a plurality of functions in support of on-line creation of a multi-region market research study, including
 - a first function to provide on-line definition of the multi-region market research study, and
 - a second function to provide on-line status monitoring for translations of study elements of the multi-region market research study from an original language into one or more target languages; and
 - one or more processors coupled to the storage medium to execute the programming instructions
42. The apparatus of claim 41, wherein the second function is designed to display a summary report of on the translation status of the study elements by target languages.
43. A method for creating a multi-region market research study, the method comprising:
 - providing on-line definition of the multi-region market research study including providing for on-line selection of one or more regions to conduct the study; and
 - providing in real time a cost estimate for the multi-region market research based at least in part on the regions the study is to be conducted, including translation cost if any to enable the study to be conducted in the selected regions.
44. The method of claim 43, where said providing of a cost estimate is further based on an amount of panelists selected for said regions the study is to be conducted.

45. The method of claim 43, where said providing of a cost estimate is further based on an amount of language elements to be translated and a number of languages the language elements are to be translated into.
46. The method of claim 43, where the method further comprises providing for on-line check-in of translated language elements.
47. The method of claim 43, where the method further comprises providing for on-line management of translation status.
48. An apparatus comprising:
storage medium having stored in a plurality of programming instructions designed to provide on-line definition of a multi-region market research study including providing for on-line selection of one or more regions to conduct the study, and providing in real time a cost estimate for the multi-region market research based at least in part on the regions the study is to be conducted, including translation cost if any to enable the study to be conducted in the selected regions; and
a processor coupled to the storage medium to execute the programming instructions.
49. The apparatus of claim 48, where said programming instructions are designed to further base said cost estimate on an amount of panelists selected for said regions the study is to be conducted.
50. The apparatus of claim 48, where said programming instructions are designed to further base said cost estimate on an amount of language elements to be translated and a number of languages the language elements are to be translated into.

51. The apparatus of claim 48, where the programming instructions are further designed to provide for on-line check-in of translated language elements.

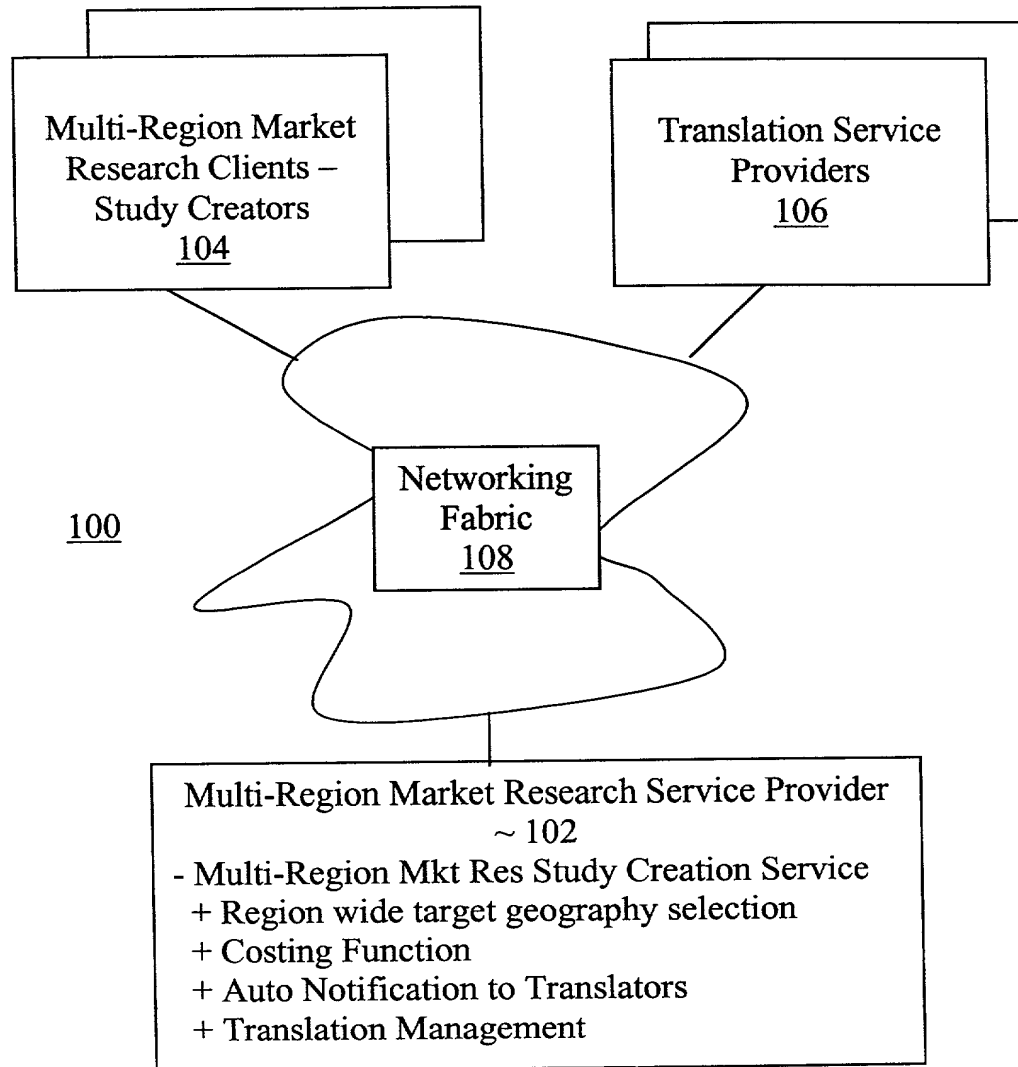
52. The apparatus of claim 48, where the programming instructions are further designed to provide for on-line management of translation status.

Patent Application No. 10/000,000

Multi-Region Market Research Study Creation

ABSTRACT OF THE DISCLOSURE

A market research service is provided with a study creation service that includes a number of functions to support the creation of multi-region market research studies. In one embodiment, the functions include a function in support of implicit country and/or city selection within a region. In another embodiment, the functions include a function in support of providing a real time cost estimate for the study being created. In yet another embodiment, the functions include a function in support of auto notification to translators providing translation services for translating study elements (such as questions, messages, pick lists and concepts) into supported target languages. In yet another embodiment, the functions include a function in support of on-line check in of the translated study elements. In yet another embodiment, the functions include a function in support of on-line monitoring of translation status.

**Figure 1**

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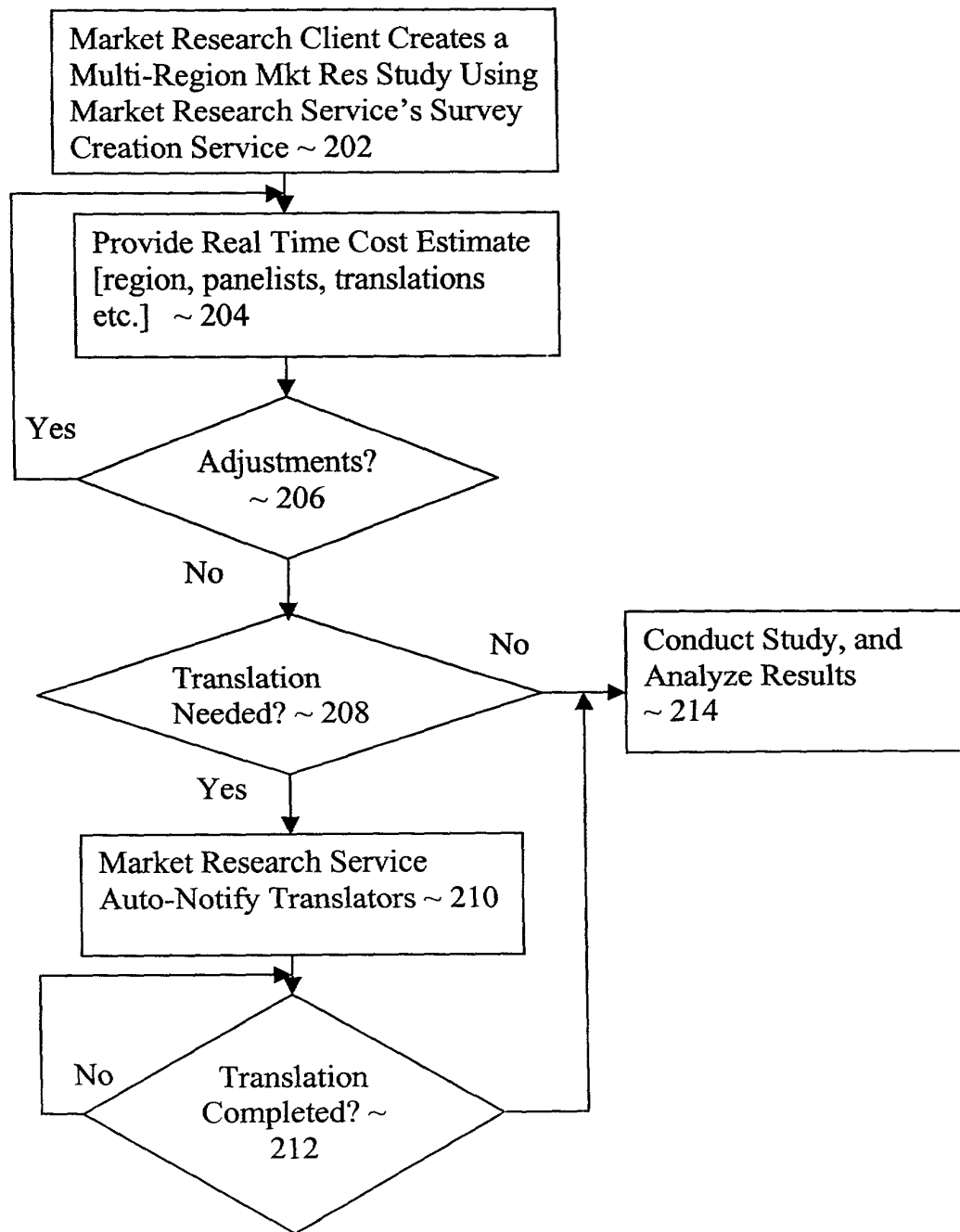
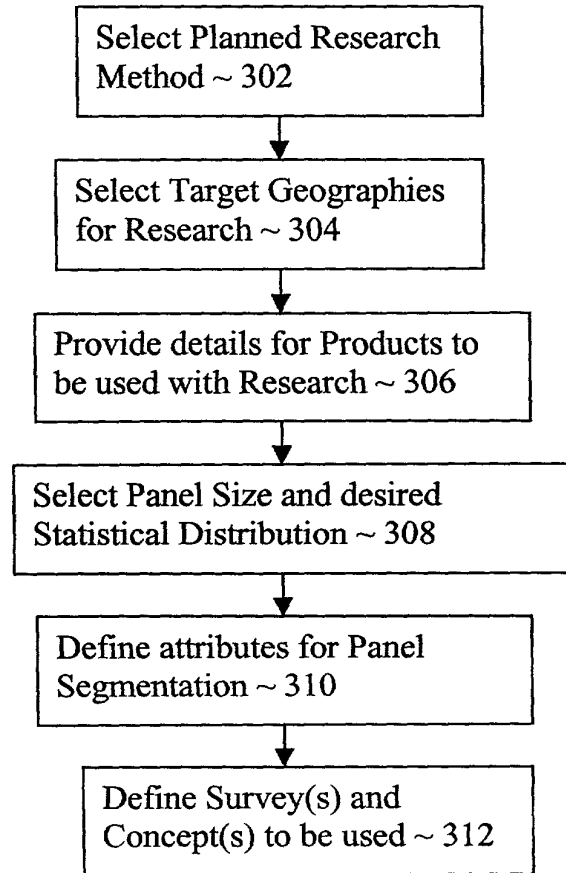


Figure 2

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**Figure 3**

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400

Study Creation																							
Menu/Tool Bar		<div style="border: 1px solid black; width: 80px; height: 20px; display: inline-block;"></div>																					
<p>Step 2: Please select the target geographies ~ 402</p> <p><u>Regions of the World ~404</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 45%;">North America</td> <td style="width: 5%;">O</td> <td style="width: 45%;">South Asia</td> <td style="width: 5%;">O</td> </tr> <tr> <td>European Union</td> <td>O</td> <td>Greater China</td> <td>⊗ ~ 406</td> </tr> <tr> <td>G-7 countries</td> <td>O</td> <td>Middle East</td> <td>O</td> </tr> <tr> <td>North Asia</td> <td>O</td> <td>Africa</td> <td>O</td> </tr> <tr> <td>Southeast Asia</td> <td>O</td> <td>South America</td> <td>O</td> </tr> </table> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p style="text-align: center;"><u>Individual Countries ~ 408</u></p> <div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Russia ▲ </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Saudi Arabia </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Singapore </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> South Africa </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Spain </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Sweden </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Switzerland </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Taiwan ▼ </div> </div> </div> <div style="width: 48%;"> <p style="text-align: center;"><u>Individual Cities or States ~ 410</u></p> <div style="border: 1px solid black; padding: 5px; min-height: 150px;"> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> San Francisco, USA ▲ </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Santiago, Chile </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Sao Paulo, Brazil </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Seoul, South Korea </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Shanghai, China </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Shenyang, China </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> St. Petersburg, Russia </div> <div style="display: flex; justify-content: space-between; padding: 0 5px;"> Taipei, Taiwan ▼ </div> </div> </div> </div>				North America	O	South Asia	O	European Union	O	Greater China	⊗ ~ 406	G-7 countries	O	Middle East	O	North Asia	O	Africa	O	Southeast Asia	O	South America	O
North America	O	South Asia	O																				
European Union	O	Greater China	⊗ ~ 406																				
G-7 countries	O	Middle East	O																				
North Asia	O	Africa	O																				
Southeast Asia	O	South America	O																				

Figure 4a

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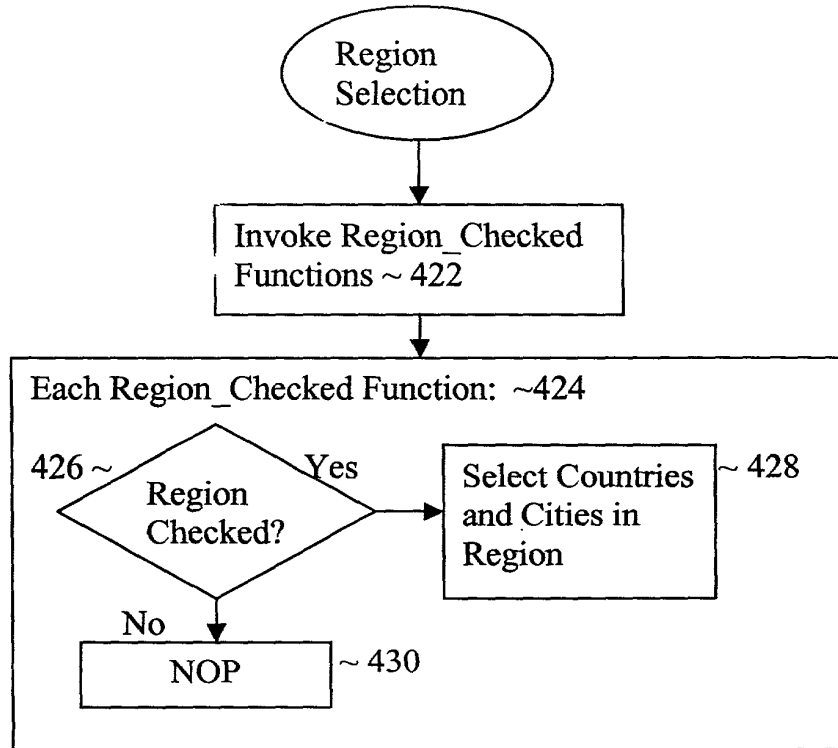


Figure 4b

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500

Study Creation - Summary	
Menu/Tool Bar	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<p>Study number: nnnnn ~ 502</p> <p>Research Design: Paired Comparison – Acceptance Test ~ 504</p> <p>Geographic focus: ~ 508</p> <p> Region: Greater China ~ 508a</p> <p> Countries: China, HongKong, Taiwan ~ 508b</p> <p> Cities: Beijing, HongKong, Shanghai, Shanyang etc. ~ 508c</p> <p>Product Usage: ~ 510</p> <p> Number of products: 1 product used ~ 510a</p> <p> Usage period: 7 days ~ 510b</p> <p>Methodology: ~ 512</p> <p> Number of panelists: 600 panelists, each use 1 product ~ 512a</p> <p> Balancing: randomly selected ~ 512b</p> <p>Documents: ~ 514</p> <p> Concept/Copy: No concept selected yet ~ 514a</p> <p> Questionnaires: Use Survey #1 ~ 514b</p> <p> Languages: Chinese-Modern, Chinese-Trad, English ~ 514c</p> <p>Other Aspects</p> <p>Estimated Cost: ~ 516</p> <p> Research cost: USD 13800 ~ 516a</p> <p> Product Shipping fees: USD 12780 ~ 516b</p>	

Figure 5a

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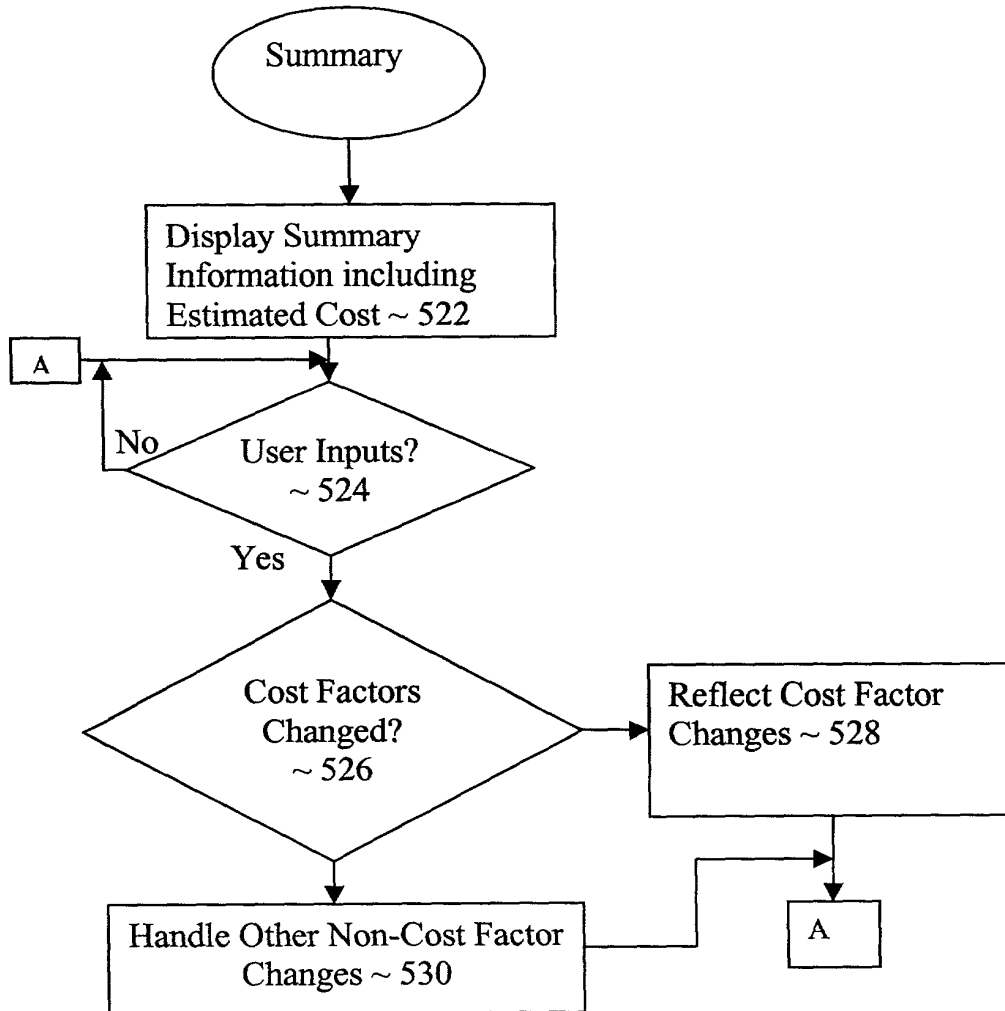


Figure 5b

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600

Study Creation – Translation Check In		
Menu/Tool Bar		<input type="text"/>
Translating from English to Language X		
Other User Instructions ~ 602		
ID ~ 604	Original Text in English ~ 606	Translated Text – Language X ~ 608
1-1		
1-2		
1-3		
<div style="text-align: center;"> 610 → Submit </div>		

Figure 6

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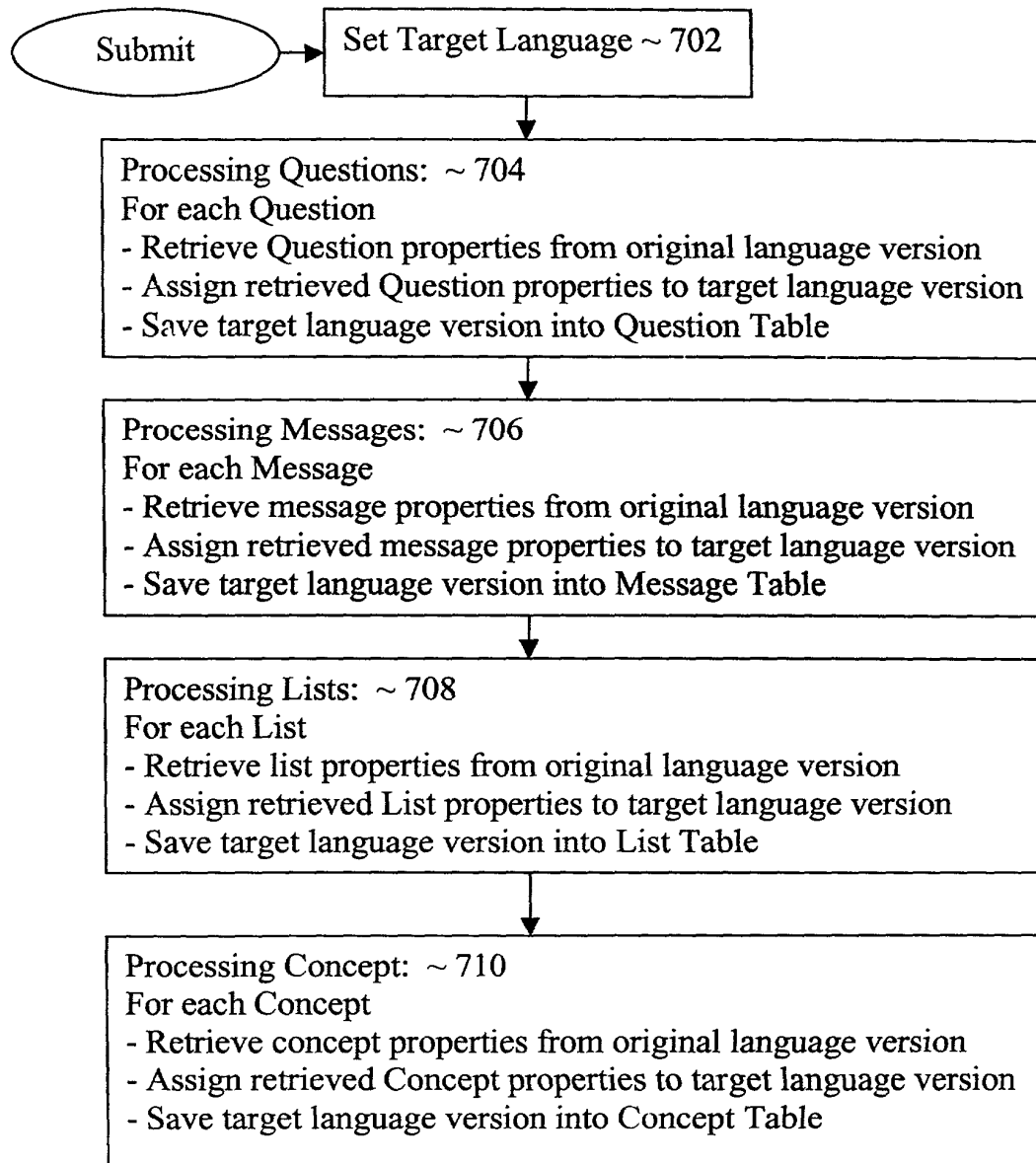


Figure 7

[illegible]

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800

[illegible]

Figure 8

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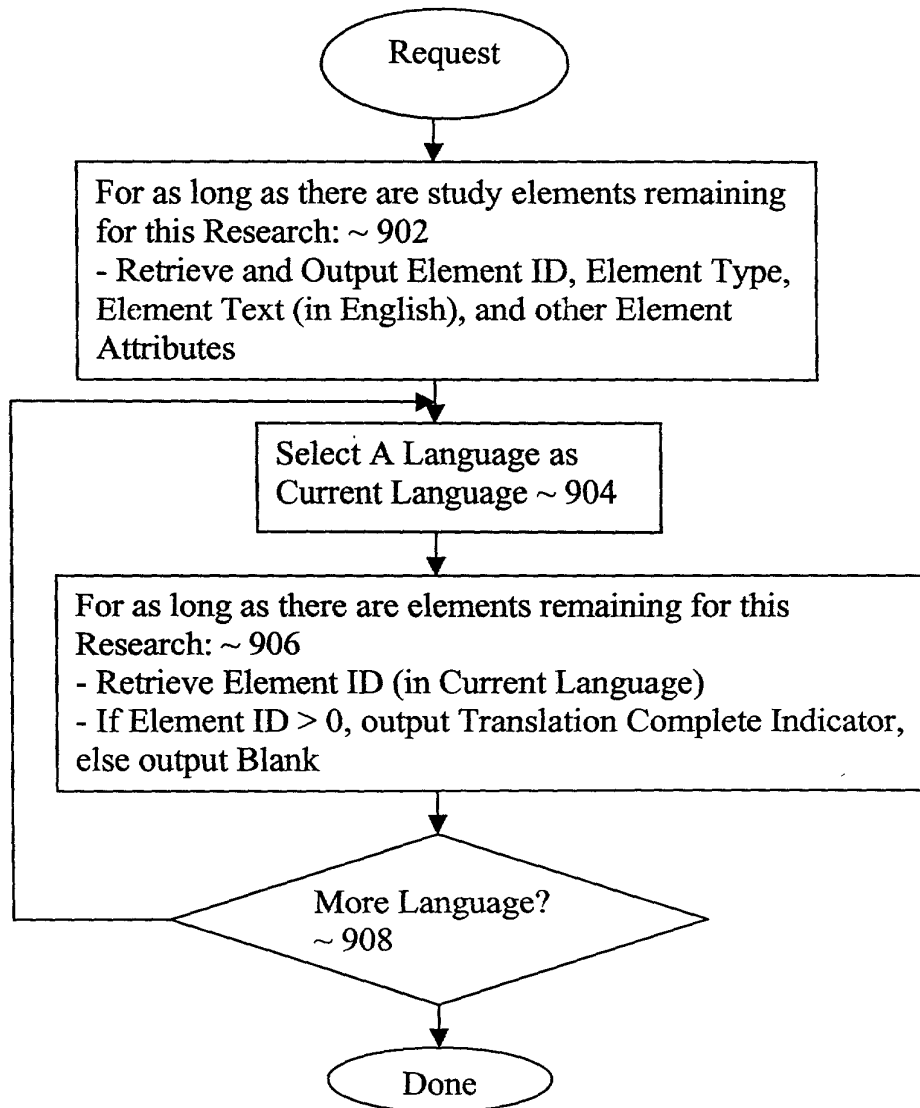


Figure 9

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Message Table ~ 1000

Message ID ~ 1002	Language ID ~ 1004	Message Text ~ 1006	Message Attributes, e.g. font, font size, style, alignment etc. ~ 1008

Figure 10a

List Table ~ 1020

List ID ~ 1022	Language ID ~ 1024	List Text ~ 1026	List Sequence ~ 1028	Other Related Data ~ 1030

Figure 10b

Question Table ~ 1100

Question ID ~ 1102	Language ID ~ 1104		Question Text ~ 1106	Question Attributes, e.g. font, font size, style, alignment etc. ~ 1108

Figure 11a

Concept Table ~ 1120

Concept ID ~ 1122	Language ID ~ 1124		Concept Text ~ 1126	Other Related Data ~ 1128

Figure 11b

Cost Factor Table ~ 1150

Panelist Cost by Countries/Cities ~ 1152	Translation Cost by Languages ~ 1154		Other Related Data ~ 1156

Figure 11c

1200

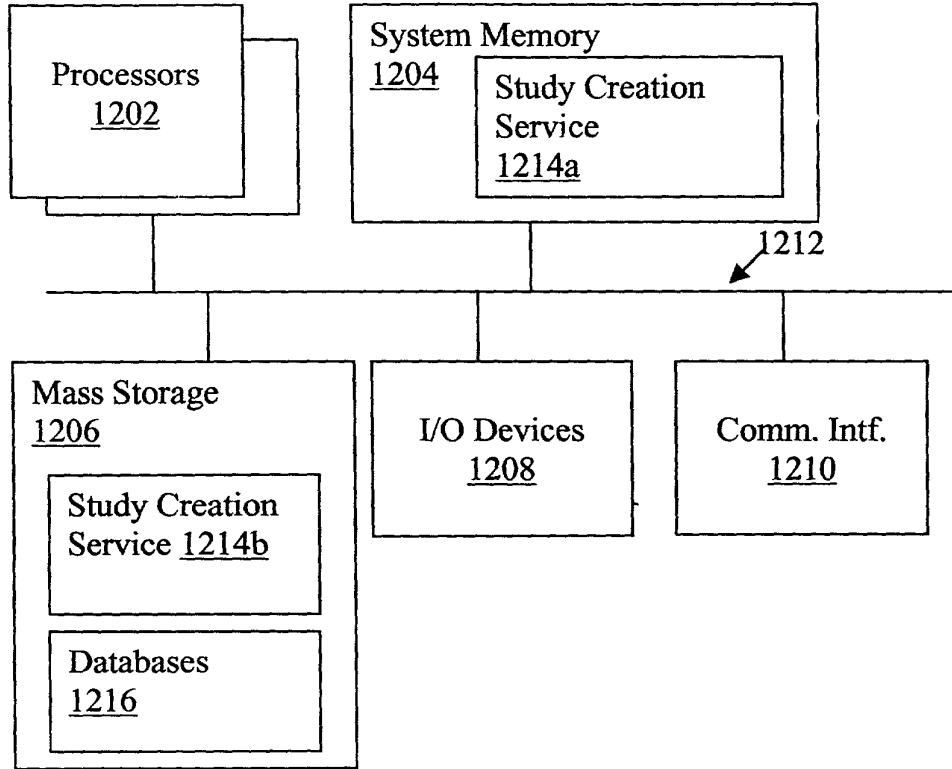


Figure 12

FIG. 12

**DECLARATION AND POWER OF ATTORNEY FILED WITH U.S. DESIGNATED OFFICE
UNDER 35 U.S.C.. 371(c)(4)**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below, next to my name.

I believe I am the original, first, and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Multi-Region Market Research Study Creation

the specification of which

_____ is attached hereto.
☒ was filed on 6 November 2000 as

 United States Application _____
 or PCT International Application Number PCT/US00/41972
 and was amended on _____
 (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above.

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d), of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

<u>Prior Foreign Application(s)</u>			<u>Priority Claimed</u>	
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____
(Number)	(Country)	(Day/Month/Year Filed)	Yes	No
_____	_____	_____	_____	_____

034474-01301
 12/24/2000

I hereby claim the benefit under title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below

<u>60/164,585</u>	<u>11/10/99</u>
(Application Number)	(Filing Date)
<u> </u>	<u> </u>
(Application Number)	(Filing Date)

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

<u> </u>	<u> </u>	<u> </u>
(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)
<u> </u>	<u> </u>	<u> </u>
(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)

I hereby, in my capacity as the sole inventor of the subject application and as an authorized officer of Global Market Insite, Inc. having the requisite power, appoint Aloysius T. C. AuYeung, Reg. No. 35,432; Robert A. Diehl, Reg. No. 40,992; Jason K. Klindtworth, Reg. No. 47,211; Robert T. Watt, Reg. No. 45,890; as my patent attorney/agent; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office and all competent international authorities connected herewith.

Send correspondence to Aloysius T.C. AuYeung, Columbia IP Law-Group, LLC, 4900
SW

(Name of Attorney or Agent)

Meadows Road, Suite 109, Lake Oswego, Oregon 97035, and direct telephone calls to

Aloysius T.C. AuYeung, 503-534-2800.

(Name of Attorney or Agent)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Title 37, Code of Federal Regulations, Section 1.56
Duty to Disclose Information Material to Patentability

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

(1) Prior art cited in search reports of a foreign patent office in a counterpart application, and

(2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or

(2) It refutes, or is inconsistent with, a position the applicant takes in:

(i) Opposing an argument of unpatentability relied on by the Office, or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application;

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.